

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Total Metals By EPA Method 200.8

Client ID:	M115599	Client:	Alaskan Copper Works
Date Received:	01/04/07	Project:	PO# M115599, F&BI 701026
Date Extracted:	01/05/07	Lab ID:	701026-01
Date Analyzed:	01/05/07	Data File:	701026-01.015
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	btb

Internal Standard:	% Recovery:	Lower	Upper
Germanium	100	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/L (ppb)
Chromium	378
Nickel	330
Copper	152
Zinc	20.4

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## ENVIRONMENTAL CHEMISTS

### Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Alaskan Copper Works
Date Received:	Not Applicable	Project:	PO# M115599, F&BI 701026
Date Extracted:	01/05/07	Lab ID:	I7-6 mb
Date Analyzed:	01/05/07	Data File:	I7-6 mb.008
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	btb

Internal Standard:	% Recovery:	Lower	Upper
Germanium	95	Limit:	Limit:
		60	125

Analyte:	Concentration
	ug/L (ppb)
Chromium	<1
Nickel	<1
Copper	<1
Zinc	<2

**FRIEDMAN & BRUYA, INC.****ENVIRONMENTAL CHEMISTS**

Date of Report: 01/10/07

Date Received: 01/04/07

Project: Metro Self Monitor, PO# M115599, F&amp;BI 701026

**QUALITY ASSURANCE RESULTS  
FOR THE ANALYSIS OF WATER SAMPLES  
FOR TOTAL METALS BY EPA METHOD 200.8**

Laboratory Code: 612150-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	ug/L (ppb)	<1	<1	nm	0-20
Nickel	ug/L (ppb)	10.5	9.86	6	0-20
Copper	ug/L (ppb)	<1	<1	nm	0-20
Zinc	ug/L (ppb)	99.8	98.4	1	0-20

Laboratory Code: 612150-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Chromium	ug/L (ppb)	20	<1	82	50-150
Nickel	ug/L (ppb)	20	10.5	80 b	50-150
Copper	ug/L (ppb)	20	<1	72	50-150
Zinc	ug/L (ppb)	50	99.8	74 b	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Chromium	ug/L (ppb)	20	102	70-130
Nickel	ug/L (ppb)	20	108	70-130
Copper	ug/L (ppb)	20	102	70-130
Zinc	ug/L (ppb)	50	112	70-130

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Charlene Morrow, M.S.  
Yelena Aravkina, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

3012 16th Avenue West  
Seattle, WA 98119-2029  
TEL: (206) 285-8282  
FAX: (206) 283-5044  
e-mail: fbi@isomedia.com

January 10, 2007

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on January 4, 2007 from the Metro Self Monitor, PO# M115599, F&BI 701026 project. There are 3 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
ACU0110R

701026  
 Send Report To GERARD Thompson  
 Company ALASKAN Copper Works  
 Address 628 S. Harbor St  
 City, State, ZIP Seattle WA 98134  
 Phone # 206-382-8379 Fax # 206-382-4309

## SAMPLE CHAIN OF CUSTODY

ME 01/04/07

AI4

SAMPLERS (signature) <u>[Signature]</u>	
PROJECT NAME/NO. <u>METRO SELF MONITOR M115599</u>	PO # <u>M115599</u>
REMARKS	

Page # <u>1</u> of <u>1</u>
TURNAROUND TIME <input type="checkbox"/> Standard (2 Weeks) <input checked="" type="checkbox"/> RUSH Rush charges authorized by: _____
SAMPLE DISPOSAL <input type="checkbox"/> Dispose after 30 days <input type="checkbox"/> Return samples <input type="checkbox"/> Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS					
M115599	01	1/4/07	12:30	H2O	1							X				

Friedman & Bruya, Inc.  
 3012 16th Avenue West  
 Seattle, WA 98119-2029  
 Ph. (206) 285-8282  
 Fax (206) 283-5044

FORMS\COC\COC.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	<u>GERARD Thompson</u>	<u>ACW</u>	<u>1/4/07</u>	<u>10:50pm</u>
Received by: <u>[Signature]</u>	<u>Nhan Phan</u>	<u>FEBI</u>	<u>1/4/07</u>	<u>1:05</u>
Relinquished by:				
Received by:				

Samples received at 16 °C

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January 10, 2007



INVOICE #07ACU0110-1

Accounts Payable  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M115599, F&BI 701026 - Results of testing  
requested by Gerry Thompson for material submitted on January 4, 2007.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc  
by Method 200.8 @ \$80 per sample

\$ 80.00

Amount Due .....

\$ 80.00

FEDERAL TAX ID #(b) (6)